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MEMORANDUM FOR THE RECORD

25X1A9a

SUBJECT: Conversation with NPIC/TRO (an acknowledged expert in teaching method)

- 1. To the question: "When you must teach a person to use a machine, must you teach him the internal workings of the machine?" replied as 25X1A9a follows:
- a. "In the Air Ferce program to teach pilets flying, considerable research revealed that the student pilets were not required to know aeronautics nor the actual construction of the aircraft with the exception that they must have a memorized and complete knowledge of (1) the various controls which the pilet must use and (2) alternate matheds of accomplishing the function of the primaryx controls. The depth of their students' knowledge of aeronautics or communication of the aircraft had little correlation to the capability to learn to operate the machine".
- b. The most sig ifficant item of la above is in the (2) alternate matcheds. Comment thereon is that unless the student is also issued a screwdriver and wrench and authorized to open inspection plates, he need know not know anything of inner workings, only field non-technical expedients to correct errors.
- think they are unable to either trust or use machines the innner workings of which they do not know. This is compared with the student with a totally nun-technical view of the world and who, when shown the inner workings of the machine immediately reacts:

  "That's too complicated for me, I'll never understand it." and forthwith closes his mind to the succeeding discussions. We agreed that the appropriate solution to this problem, (and the solution is based firmly upon experience \$5X1A9a is to proxipate after \$2502/01/239. CAR-REP76.05795A00560CM10621 the course.